

Organising institution

Università degli Studi di Padova
Dipartimento di Matematica "Tullio LeviCivita" - DM
Prof. Mauro Conti

Partner Institutions

Vilnius University, Lithuania
University of Granada, Spain
University of Jean Monnet Saint Etienne, France

Course Title and Description

2021 Summer School in Cybersecurity

The “2021 Summer School in Cybersecurity” will unfold in five days, 27 hours in total. Three types of activity (seminars, hands-on sessions/labs and students’ presentations) are planned during the Summer School as follows.

The first four days are each devoted to one of the project partner that will give seminars in the morning and organize hands-on sessions/labs in the afternoon. The last day will be devoted to students and to their presentations in particular.

The first day of the Summer School will be organized by the University of Padova. In the morning UniPD researchers will give a series of seminars on GNSS integrity protection, multimedia forgery in the deep learning era, quantum cryptography, physical layer security, mobile security, future Internet security, blockchain e cyber-physical systems security. In the afternoon hands-on activities (i.e. Capture-the-Flag like competitions) will be organized during which students will be able to challenge one another while interfacing with CyberSecurity principles (cryptography, web security, reverse-engineering, memory-base attacks).

The second day

The second day of the Summer School will be organized by the University of Granada. The seminars will be on network e systems security, buffer overflow and practical exploiting. Besides the academic seminars, there will be a session on collaborations with industry. In particular, the UGR researchers will present the current projects with Costella Intelligence, JTSEC, Telefónica Eleven Paths. Finally, practical sessions will focus on the solution of CTF style challenges.

The third day of the Summer School will be organized by Vilnius University and its seminars will focus on database security

The fourth day of the Summer School will be organized by the University of Jean Monnet Saint Etienne. During this day the researchers will present the current projects on web security.

The last day will be devoted to a students’ workshop. The research groups from the four Universities will share with the students some research questions to reflect upon and to prepare a presentation. During the workshop, students will show their presentation and will debate with the researchers involved. Each institution will award a prize for the best presentation.

Period

01/09/2021 – 07/09/2021

ETCS credits

2 CFU

Course fee

N/A



Course Level

Master degree course in CyberSecurity and similar Master degree courses (e.g., Master Degree course in Computer Science, in Computer Engineering, in ICT for internet and multimedia)